



## ***How to Perform Your Hydrology Investigation***

### ***Collecting the Water Sample***

#### ***Water Transparency Protocol***

Students will first measure water transparency at their undisturbed sampling site.

#### ***Water Temperature Protocol***

Immediately after collecting their water sample or *in situ*, students will measure the temperature of the water.

#### ***Dissolved Oxygen Protocol***

Students will measure the dissolved oxygen in their water sample or *in situ*.

#### ***pH Protocol***

Students will measure the pH of their water sample. Method one uses pH indicator paper, and method two uses pH pens or pH meters.

#### ***Electrical Conductivity Protocol***

Students will measure the electrical conductivity of their fresh water sample.

#### ***Salinity Protocol***

Students will measure the salinity of their salty or brackish water sample using a hydrometer.

#### ***Optional Salinity Titration Protocol***

Intermediate or advanced students will measure the salinity of their salty or brackish water sample using a chlorinity titration.

#### ***Alkalinity Protocol***

Students will measure the alkalinity of their water sample.

#### ***Nitrate Protocol***

Students will measure the nitrate-nitrogen content of their water sample.